

Summary of Search Terms

| Type | Hits | Search Text | DBs | Time Stamp | Comments | Error Definition | Errors |
|--------|------|---|----------------------------|------------------|----------|------------------|--------|
| 1 BRS | 65 | 205/179.cc1s. | USPAT | 2000/11/28 08:42 | | | 0 |
| 2 BRS | 34 | 205/179.cc1s. and chromium | USPAT | 2000/11/28 08:42 | | | 0 |
| 3 BRS | 10 | 205/179.cc1s. and chromium and crack\$5 | USPAT | 2000/11/28 08:44 | | | 0 |
| 4 BRS | 7 | 205/179.cc1s. and (chromium same crack\$5) | USPAT | 2000/11/28 08:46 | | | 0 |
| 5 BRS | 2459 | (chromium same crack\$5) | USPAT | 2000/11/28 08:46 | | | 0 |
| 6 BRS | 892 | (chromium same crack\$5) same (no or free) | USPAT | 2000/11/29 09:04 | | | 0 |
| 7 BRS | 143 | 250/290.cc1s. | USPAT | 2000/11/28 08:53 | | | 0 |
| 8 BRS | 2 | 250/290.cc1s. and crack\$5 | USPAT | 2000/11/28 08:54 | | | 0 |
| 9 BRS | 11 | 205/290.cc1s. and crack\$5 | USPAT | 2000/11/28 10:38 | | | 0 |
| 10 BRS | 58 | 205/102.cc1s. | USPAT | 2000/11/28 10:48 | | | 0 |
| 11 BRS | 102 | 205/104.cc1s. | USPAT | 2000/11/28 11:11 | | | 0 |
| 12 BRS | 45 | 205/113.cc1s. | USPAT | 2000/11/28 16:31 | | | 0 |
| 13 BRS | 290 | 205/170.cc1s. | USPAT | 2000/11/28 11:36 | | | 0 |
| 14 BRS | 0 | 205/170.cc1s. and 205/113.cc1s. | USPAT | 2000/11/28 11:37 | | | 0 |
| 15 BRS | 349 | 205/170 and 205/170 | USPAT | 2000/11/28 11:37 | | | 0 |
| 16 BRS | 1 | 205/170 and 205/113 | USPAT | 2000/11/28 11:38 | | | 0 |
| 17 BRS | 290 | 205/170.cc1s. | USPAT | 2000/11/28 11:40 | | | 0 |
| 18 BRS | 65 | 205/179.cc1s. | USPAT | 2000/11/28 11:40 | | | 0 |
| 19 BRS | 65 | (crack adj5 free) same chromium | USPAT | 2000/11/29 08:39 | | | 0 |
| 20 BRS | 3 | H543 | USPAT | 2000/11/28 16:56 | | | 0 |
| 21 BRS | 0 | 204/41.cc1s. | USPAT | 2000/11/28 16:57 | | | 0 |
| 22 BRS | 8 | "3770286" | USPAT | 2000/11/28 16:57 | | | 0 |
| 23 BRS | 24 | (crack adj5 free) same chromium same layer\$5 | USPAT | 2000/11/29 09:01 | | | 0 |
| 24 BRS | 5 | "3661733" | USPAT | 2000/11/29 09:01 | | | 0 |
| 25 BRS | 1 | H000543 | USPAT | 2000/11/29 09:08 | | | 0 |
| 26 BRS | 65 | 205/179.cc1s. | USPAT | 2000/11/29 09:08 | | | 0 |
| 27 BRS | 1 | 205/179.cc1s. and (crack adj4 free) and layer | USPAT | 2000/11/29 09:13 | | | 0 |
| 28 BRS | 1 | 205/179.cc1s. and (crack adj4 free) | USPAT | 2000/11/29 09:17 | | | 0 |
| 29 BRS | 71 | chromium and (crack adj4 free) | EPO; JPO; Derwent; IBM TDB | 2000/11/29 09:39 | | | 0 |
| 30 BRS | 5 | chromium and (crack adj4 free) and pulse | EPO; JPO; Derwent; IBM TDB | 2000/11/29 10:20 | | | 0 |
| 31 BRS | 4 | chen-edward-s.in | EPO; JPO; Derwent; IBM TDB | 2000/11/29 10:21 | | | 0 |

| Type | Hits | Search Text | DBs | Time Stamp | Comments | Error Definition | Errors |
|--------|-------|---|-------|------------------|----------|------------------|--------|
| 32 BRS | 7 | chen-edward.s.in. | USPAT | 2000/11/29 10:22 | | | 0 |
| 33 BRS | 1 | capsimalis-george-p.in. | USPAT | 2000/11/29 10:23 | | | 0 |
| 34 BRS | 21 | (204/\$.ccls. or 205/\$.ccls.) and (chromium same (crack adj4 free)) | USPAT | 2000/11/29 15:41 | | | 0 |
| 35 BRS | 19 | (427/\$.ccls. or 428/\$.ccls.) and (chromium same (crack adj4 free)) | USPAT | 2000/11/29 14:20 | | | 0 |
| 36 BRS | 5758 | (427/\$.ccls. or 428/\$.ccls.) and (chromium same layer) | USPAT | 2000/11/29 10:54 | | | 0 |
| 37 BRS | 169 | (427/\$.ccls. or 428/\$.ccls.) and (chromium same layer) and (chromium same crack) | USPAT | 2000/11/29 11:05 | | | 0 |
| 38 BRS | 11 | (427/\$.ccls. or 428/\$.ccls.) and (chromium same layer) and (chromium same (crack adj4 free)) | USPAT | 2000/11/29 11:16 | | | 0 |
| 39 BRS | 13 | (204/\$.ccls. or 205/\$.ccls.) and (chromium same layer) and (chromium same (crack adj4 free)) | USPAT | 2000/11/29 14:04 | | | 0 |
| 40 BRS | 14 | (204/\$.ccls. or 205/\$.ccls.) and "3886053" | USPAT | 2000/11/29 14:15 | | | 0 |
| 41 BRS | 0 | (204/\$.ccls. or 205/\$.ccls.) and "3886053" and sulfonic | USPAT | 2000/11/29 14:15 | | | 0 |
| 42 BRS | 4 | (204/\$.ccls. or 205/\$.ccls.) and chromium and (crack adj4 free) and sulfonic | USPAT | 2000/11/29 14:16 | | | 0 |
| 43 BRS | 7 | (427/\$.ccls. or 428/\$.ccls.) and chromium and (crack adj4 free) and sulfonic | USPAT | 2000/11/29 14:32 | | | 0 |
| 44 BRS | 5 | "4869971" and chromium | USPAT | 2000/11/29 14:50 | | | 0 |
| 45 BRS | 0 | ((pulse same current) same chromium) and sulfonic | USPAT | 2000/11/29 14:54 | | | 0 |
| 46 BRS | 32 | ((pulse same current) and chromium) and sulfonic | USPAT | 2000/11/29 14:55 | | | 0 |
| 47 BRS | 0 | ((pulse same current) and chromium) and sulfonic and (crack adj4 free) | USPAT | 2000/11/29 14:55 | | | 0 |
| 48 BRS | 0 | sulfonic and (crack adj4 free) and chromium and pulse | USPAT | 2000/11/29 14:55 | | | 0 |
| 49 BRS | 11 | sulfonic and (crack adj4 free) and chromium | USPAT | 2000/11/29 15:20 | | | 0 |
| 50 BRS | 731 | sulfonic same chromium | USPAT | 2000/11/29 15:20 | | | 0 |
| 51 BRS | 3 | (sulfonic same chromium) and (crack adj5 free) | USPAT | 2000/11/29 15:24 | | | 0 |
| 52 BRS | 66 | (sulfonic same chromium) and (crack\$5) | USPAT | 2000/11/29 15:25 | | | 0 |
| 53 BRS | 59 | sulfonic and (chromium same crack\$5) | USPAT | 2000/11/29 15:26 | | | 0 |
| 54 BRS | 56502 | (204/\$.ccls. or 205/\$.ccls.) or (427/\$.ccls. or 428/\$.ccls.) and (sulfonic same chromium) | USPAT | 2000/11/29 15:45 | | | 0 |
| 55 BRS | 1 | ((204/\$.ccls. or 205/\$.ccls.) and (sulfonic same chromium)) and (crack adj5 free) | USPAT | 2000/11/29 15:46 | | | 0 |

| Type | Hits | Search Text | DBs | Time Stamp | Comments | Error Definition | Errors |
|--------|------|--|-------|------------------|----------|------------------|--------|
| 56 BRS | 57 | (204/\$.ccls. or 205/\$.ccls.) and (sulfonic same chromium) | USPAT | 2000/11/29 15:55 | | | 0 |
| 57 BRS | 2 | (204/\$.ccls. or 205/\$.ccls.) and (sulfonic same chromium) and pulse\$5 | USPAT | 2000/11/29 16:00 | | | 0 |
| 58 BRS | 78 | (427/\$.ccls. or 428/\$.ccls.) and (sulfonic same chromium) | USPAT | 2000/11/29 16:01 | | | 0 |
| 59 BRS | 2 | (427/\$.ccls. or 428/\$.ccls.) and (sulfonic same chromium) and (crack adj5 free) | USPAT | 2000/11/30 11:15 | | | 0 |
| 60 BRS | 48 | chromium and (crack adj4 free) and (grain adj4 size) | USPAT | 2000/11/30 14:16 | | | 0 |
| 61 BRS | 0 | chromium and (crack adj4 free) and (grain adj4 size) and (compressive same residual same stress) | USPAT | 2000/11/30 11:19 | | | 0 |
| 62 BRS | 0 | chromium and (crack adj4 free) and (grain adj4 size) and (compressive same stress) | USPAT | 2000/11/30 11:19 | | | 0 |
| 63 BRS | 4 | chromium and (crack adj4 free) and (grain adj4 size) and (residual same stress) | USPAT | 2000/11/30 11:19 | | | 0 |
| 64 BRS | 31 | chromium and (crack adj4 free) and (grain adj4 size) and stress | USPAT | 2000/11/30 11:22 | | | 0 |
| 65 BRS | 1 | chromium and (crack adj4 free) and (grain adj4 size) and stress and 205/\$.ccls. | USPAT | 2000/11/30 12:45 | | | 0 |
| 66 BRS | 13 | "4804446" | USPAT | 2000/11/30 12:46 | | | 0 |
| 67 BRS | 0 | "4804446" and sulfonic | USPAT | 2000/11/30 12:46 | | | 0 |
| 68 BRS | 7 | "4804446" and sulfur | USPAT | 2000/11/30 12:49 | | | 0 |
| 69 BRS | 1567 | (sulfonic) and electrolyt\$4 and chromium | USPAT | 2000/11/30 12:51 | | | 0 |
| 70 BRS | 1175 | (sulfonic) and electrolyt\$4 and chromium and layer | USPAT | 2000/11/30 12:51 | | | 0 |
| 71 BRS | 60 | (sulfonic) and electrolyt\$4 and chromium and layer and pulse | USPAT | 2000/11/30 12:57 | | | 0 |
| 72 BRS | 0 | (pulse same platiing) and chromium and sulfonic | USPAT | 2000/11/30 12:58 | | | 0 |
| 73 BRS | 7 | (pulse same plating) and chromium and sulfonic | USPAT | 2000/11/30 13:18 | | | 0 |
| 74 BRS | 188 | 205/283.ccls. | USPAT | 2000/11/30 13:18 | | | 0 |
| 75 BRS | 1 | 205/283.ccls. and sulfonic | USPAT | 2000/11/30 13:22 | | | 0 |
| 76 BRS | 1 | 205/283.iccls. and sulfonic | USPAT | 2000/11/30 13:22 | | | 0 |
| 77 BRS | 2 | chromium and (crack adj4 free) and (grain adj4 size) and 205/\$.ccls. | USPAT | 2000/11/30 17:12 | | | 0 |
| 78 BRS | 410 | 205/224.ccls. | USPAT | 2000/11/30 17:13 | | | 0 |
| 79 BRS | 79 | 205/224.ccls. and chromium | USPAT | 2000/11/30 17:13 | | | 0 |

| Type | Hits | Search Text | DBs | Time Stamp | Comments | Error Definition | Errors |
|---------|-------|--|-------|------------------|----------|------------------|--------|
| 80 BRS | 4 | 205/224.ccls. and chromium and (high adj3 frequency) | USPAT | 2000/11/30 17:15 | | | 0 |
| 81 BRS | 0 | 205/224.ccls. and chromium and (high adj3 frequency) and (bake or baking) | USPAT | 2000/11/30 17:15 | | | 0 |
| 82 BRS | 33444 | 205/224.ccls. and chromium and (high adj3 frequency) or (bake or baking) | USPAT | 2000/11/30 17:16 | | | 0 |
| 83 BRS | 21 | 205/224.ccls. and chromium and ((high adj3 frequency) or (bake or baking)) | USPAT | 2000/11/30 17:18 | | | 0 |
| 84 BRS | 7 | 205/224.ccls. and (chromium same oxide) and (high adj3 frequency) or (bake or baking)) | USPAT | 2000/11/30 17:20 | | | 0 |
| 85 BRS | 4 | 205/224.ccls. and (chromium same oxide) and (frequency) | USPAT | 2000/11/30 17:22 | | | 0 |
| 86 BRS | 34 | 205/224.ccls. and (chromium same oxide) | USPAT | 2000/11/30 17:23 | | | 0 |
| 87 BRS | 8 | 205/227.ccls. and (chromium same oxide) | USPAT | 2000/11/30 17:25 | | | 0 |
| 88 BRS | 26 | 205/179.ccls. and (chromium same oxide) | USPAT | 2000/11/30 17:25 | | | 0 |
| 89 BRS | 8 | 205/179.ccls. and (chromium same oxide) and heating | USPAT | 2000/11/30 17:29 | | | 0 |
| 90 BRS | 2 | 205\$.ccls. and (chromium same oxide) and (bake or baking) and (high adj4 frequency) | USPAT | 2000/12/01 08:35 | | | 0 |
| 91 BRS | 103 | 205\$.ccls. and (chromium) and (heat same oxidation) | USPAT | 2000/12/01 08:36 | | | 0 |
| 92 BRS | 17 | 205\$.ccls. and ((chromium) same (heat same oxidation)) | USPAT | 2000/12/01 08:54 | | | 0 |
| 93 BRS | 3 | 205\$.ccls. and ((chromium same oxide same film) same (heat same oxidation)) | USPAT | 2000/12/01 08:57 | | | 0 |
| 94 BRS | 43 | 205\$.ccls. and ((chromium same oxide same film) and baking) | USPAT | 2000/12/01 08:58 | | | 0 |
| 95 BRS | 11 | 205\$.ccls. and ((chromium adj3 oxide adj3 film) and baking) | USPAT | 2000/12/01 09:14 | | | 0 |
| 96 BRS | 1 | 3108931.pn. | USPAT | 2000/12/01 09:13 | | | 0 |
| 97 BRS | 43 | ((chromium adj3 oxide adj3 film) and baking) | USPAT | 2000/12/01 09:15 | | | 0 |
| 98 BRS | 349 | chromium adj3 oxide adj3 film | USPAT | 2000/12/01 09:15 | | | 0 |
| 99 BRS | 209 | (chromium adj3 oxide adj3 film) and heat | USPAT | 2000/12/01 09:16 | | | 0 |
| 100 BRS | 1 | (chromium adj3 oxide adj3 film) and (crack adj3 free) | USPAT | 2000/12/01 09:23 | | | 0 |
| 101 BRS | 80 | 205/197.ccls. | USPAT | 2000/12/01 09:24 | | | 0 |
| 102 BRS | 33 | 205/197.ccls. and chromium | USPAT | 2000/12/01 09:29 | | | 0 |

| Type | Hits | Search Text | DBs | Time Stamp | Comments | Error Definition | Errors |
|---------|------|---|-------|------------------|----------|------------------|--------|
| 103 BRS | 8 | 2051197.ccls. and chromium and (chromium adj4 oxide) | USPAT | 2000/12/01 09:35 | | | 0 |
| 104 BRS | 109 | 428\$.ccls. and chromium and (chromium adj4 oxide adj4 film) | USPAT | 2000/12/01 09:37 | | | 0 |
| 105 BRS | 0 | 428\$.ccls. and chromium and (chromium adj4 oxide adj4 film) and (heat adj3 oxidation) | USPAT | 2000/12/01 09:38 | | | 0 |
| 106 BRS | 13 | 428\$.ccls. and chromium and (chromium adj4 oxide adj4 film) and (heat same oxidation) | USPAT | 2000/12/01 09:41 | | | 0 |
| 107 BRS | 2 | (crack adj4 free) same (chromium adj3 oxide adj3 (layer or film)) | USPAT | 2000/12/01 09:45 | | | 0 |
| 108 BRS | 237 | 2051222.ccls. | USPAT | 2000/12/01 09:45 | | | 0 |
| 109 BRS | 26 | 2051222.ccls. and chromium | USPAT | 2000/12/01 09:49 | | | 0 |
| 110 BRS | 1 | 2051222.ccls. and chromium and (heat same oxidation) | USPAT | 2000/12/01 10:25 | | | 0 |
| 111 BRS | 1 | oxidation same (high adj3 frequency adj3 heat\$4) same chromium | USPAT | 2000/12/01 10:27 | | | 0 |
| 112 BRS | 59 | oxidation same (high adj3 frequency adj3 heat\$4) (high adj3 frequency adj3 heat\$4) same (oxidation adj3 (layer or film)) | USPAT | 2000/12/01 10:47 | | | 0 |
| 113 BRS | 3 | (heat adj oxidation) and chromium | USPAT | 2000/12/01 11:14 | | | 0 |
| 114 BRS | 343 | 1481121.ccls. | USPAT | 2000/12/01 11:14 | | | 0 |
| 115 BRS | 166 | 1481423.ccls. | USPAT | 2000/12/01 11:27 | | | 0 |
| 116 BRS | 1387 | heat adj oxidation | USPAT | 2000/12/01 11:27 | | | 0 |
| 117 BRS | 231 | (heat adj oxidation) same (chromium or chrome or ("Cr _{sub} 2 O _{sub} 3") or Cr ₂ O ₃) | USPAT | 2000/12/01 11:28 | | | 0 |
| 118 BRS | 41 | 205\$.ccls. and (hydrogen same (embrittlement or brittle)) | USPAT | 2000/12/01 12:05 | | | 0 |
| 119 BRS | 148 | (grain adj size) same chromium | USPAT | 2000/12/01 12:08 | | | 0 |
| 120 BRS | 677 | ((grain adj size) same chromium) and (chromium same (plate or electroplate)) | USPAT | 2000/12/01 12:09 | | | 0 |
| 121 BRS | 56 | ((grain adj size) same chromium) and (chromium same (plate or electroplate)) | USPAT | 2000/12/01 12:11 | | | 0 |
| 122 BRS | 2 | ((grain adj size) same chromium) and (chromium same (plate or electroplate)) and 205\$.ccls. | USPAT | 2000/12/01 12:13 | | | 0 |
| 123 BRS | 22 | ((crystal adj grain adj size) same chromium) | USPAT | 2000/12/01 14:13 | | | 0 |
| 124 BRS | 0 | ((crystal adj grain adj size) same chromium) and 205\$.ccls. | USPAT | 2000/12/01 12:14 | | | 0 |
| 125 BRS | 1 | ((crystal adj grain adj size) same chromium) and (crack adj3 free) | USPAT | 2000/12/01 12:15 | | | 0 |

| Type | Hits | Search Text | DBs | Time Stamp | Comments | Error Definition | Errors |
|---------|------|--|-------|------------------|----------|------------------|--------|
| 126 BRS | 4 | ((crystal adj grain adj size) same chromium) and plating | USPAT | 2000/12/01 14:14 | | | 0 |

Summary of Tagged Doc's

| | Document ID | Issue Date | Pages | Title | Current OR | Current XRef | Inventor |
|---|--|------------|-------|---|------------|---|------------------------------|
| 1 | <input checked="" type="checkbox"/> US 6077415 A | 200000620 | 7 | Multi-layer non-carbon metal-based anodes for aluminum production cells and method | 205/384 | 204/243.1 ; 204/244 ; 204/245 ; 204/290.03 ; 204/290.04 | Duruz, Jean-Jacques , et al. |
| 2 | <input checked="" type="checkbox"/> US 5672523 A | 19970930 | 45 | Thin film transistor substrate, manufacturing method thereof, liquid crystal display panel and liquid crystal display apparatus | 438/396 | 205/124 ; 438/155 ; 438/30 | Yamamoto, Hideaki , et al. |
| 3 | <input checked="" type="checkbox"/> US 5194100 A | 19930316 | 8 | Heat treatable chromium | 148/518 | 205/227 ; 205/287 ; 205/289 | DeHaven, John , et al. |
| 4 | <input checked="" type="checkbox"/> US 4128463 A | 19781205 | 5 | Method for stripping tungsten carbide from titanium or titanium alloy substrates | 205/717 | | Formanik, Bert J. |
| 5 | <input checked="" type="checkbox"/> US 4077854 A | 19780307 | 7 | Method of manufacture of solderable thin film microcircuit with stabilized resistive films | 205/159 | 205/917 ; 205/920 ; 427/123 ; 427/124 ; 427/125 ; 427/383.1 ; 427/404 ; 427/96 ; 427/99 | Estep, Gordon J. , et al. |
| 6 | <input checked="" type="checkbox"/> US 4082620 A | 19780404 | 7 | Process for chromating metallic surfaces | 205/135 | 205/221 ; 205/224 ; 205/319 | Skurkiss, Peter Kenny |
| 7 | <input checked="" type="checkbox"/> US 3860398 A | 19750114 | 8 | CAN PRODUCED FROM CHROMIUM-COATED STEEL PLATE | 428/623 | 428/472 ; 428/506 ; 428/522 ; 428/523 ; 428/524 ; 428/629 ; 428/667 | Tsunumaru, Michiko , et al. |

| | Document ID | Issue Date | Pages | Title | Current OR | Current XRef | Inventor |
|----|--|------------|-------|---|------------|---|----------------------------|
| 8 | <input checked="" type="checkbox"/> US 5795631 A | 19980818 | 20 | Method of producing transparent and other electrically conductive materials. | 428/34.1 | 204/280 ; 204/292 ; 428/457 | Parkansky, Naum , et al. |
| 9 | <input checked="" type="checkbox"/> US 3909592 A | 19750930 | 10 | Stove top assembly | 219/465.1 | 219/540 | Eide, Svein |
| 10 | <input checked="" type="checkbox"/> US 5009757 A | 19910423 | 9 | Electrochemical system for the prevention of fouling on steel structures in seawater. | 205/740 | 204/196.3 ; 204/196.36 | Riffe, William J. , et al. |
| 11 | <input checked="" type="checkbox"/> US 4869971 A | 19890926 | 13 | Multilayer pulsed-current electrodeposition process | 428/635 | 205/104 ; 205/176 ; 205/240 ; 205/255 ; 428/637 ; 428/675 ; 428/678 ; 428/935 ; 428/935 | Nee, Chin-Cheng , et al. |
| 12 | <input checked="" type="checkbox"/> US 3886053 A | 19750527 | 5 | Programmable pulse electroplating process | 205/93 | 204/DIG.9 ; 205/104 ; 205/131 ; 205/283 ; 428/615 ; 428/935 ; | Leland, James M. |

| Document ID | Issue Date | Pages | Title | Current OR | Current XRef | Inventor |
|--|--------------|----------|-------|--|---|---------------------------------|
| | | | | | 204/192.1 ; 427/250 ; 427/296 ; 427/404 ; 427/525 ; 427/526 ; 427/531 | Ogisu, Yasuhiro , et al. |
| 13 <input checked="" type="checkbox"/> | US 5837354 A | 19981117 | 10 | Flexible metallized products and process for producing the same | 428/208 ; 427/532 ; 427/585 ; 428/195 | |
| 14 <input checked="" type="checkbox"/> | US 5415761 A | 19950516 | 12 | Process for applying a structured surface coating on a component | 205/104 ; 205/113 ; 205/179 ; 205/180 | Mull, Karl |
| 15 <input checked="" type="checkbox"/> | US 4563399 A | 19860107 | 5 | Chromium plating process and article produced | 205/112 ; 205/113 ; 205/164 ; 205/179 | Wright, Jr., Leslie S. |
| 16 <input checked="" type="checkbox"/> | US 6030851 A | 20000229 | 14 | Method for overpressure protected pressure sensor | 438/53 ; 438/52 ; 438/614 ; 438/678 | Grandmont, Paul E. , et al. |
| 17 <input checked="" type="checkbox"/> | US 4996131 A | 19910226 | 4 | Offset plate with thin chromium layer and method of making | 430/276.1 ; 430/302 | Nouel, Jean-Marie |
| 18 <input checked="" type="checkbox"/> | US 4857436 A | 19890815 | 3 | Offset plates with two chromium layers | 430/276.1 ; 430/275.1 | Nouel, Jean-Marie |
| 19 <input checked="" type="checkbox"/> | US 4846940 A | 19890711 | 7 | Electrolytically deposited hard chromium coatings | 205/109 | Neuhäuser, Hans-Jochem , et al. |
| 20 <input checked="" type="checkbox"/> | US 4804446 A | 19890214 | 14 | Electrodeposition of chromium from a trivalent electrolyte | 205/104 ; 205/289 | Lashmore, David S. , et al. |

| Document ID | Issue Date | Pages | Title | Current OR | Current XRef | Inventor |
|---|------------|-------|---|------------|---|-------------------------------|
| 21 <input checked="" type="checkbox"/> US H000543 H | 19881101 | 5 | Laminated chromium composite | 428/635 | 428/666 ; 428/935 | Chen, Edward S. , et al. |
| 22 <input checked="" type="checkbox"/> US 4557808 A | 19851210 | 4 | Method of applying a corrosion-proof and wear-resistant coating to a workpiece | 205/113 | 205/187 ; 205/216 ; 205/219 | Strunck, Theo , et al. |
| 23 <input checked="" type="checkbox"/> US 4093522 A | 19780606 | 6 | Electrolytic chromic acid bath for chrome plating | 205/290 | 205/113 ; | Dillenberg, Horst |
| 24 <input checked="" type="checkbox"/> US 4092226 A | 19780530 | 4 | Process for the treatment of metal surfaces by electro-deposition of metal coatings at high current densities | 205/104 | 204/DIG.9 ; 205/286 ; 205/290 | Laing, Nikolaus , et al. |
| 25 <input checked="" type="checkbox"/> US 4039399 A | 19770802 | 5 | Method of making a bearing surface | 205/113 | 205/223 ; 205/286 | Wallace, William Patrick |
| | | | | | 205/262 ; 205/269 | |
| | | | | | ; 205/270 ; 205/274 ; 205/280 ; 205/281 | |
| 26 <input checked="" type="checkbox"/> US 3772170 A | 19731113 | 4 | ELECTRODEPOSITION OF CHROMIUM | 205/287 | 205/290 ; 205/296 ; 205/299 | Bharucha, Nanabhai Rustomji |
| | | | | | ; 205/302 ; 205/303 ; 205/311 ; 205/313 ; 205/314 ; | |
| 27 <input checked="" type="checkbox"/> US 3770286 A | 19731106 | 5 | PISTON RING | 277/444 | 205/113 ; 205/149 | Angiella, Anthony G. , et al. |
| | | | | | ; 205/109 | |
| 28 <input checked="" type="checkbox"/> US 3736108 A | 19730529 | 7 | ARTICLES AND METHOD OF ELECTRODEPOSITING A DECORATIVE NICKEL/CHROMIUM COATING ON A METAL SUBSTRATE | 428/613 | 428/639 ; 428/667 ; 428/926 ; 428/927 ; 428/935 | Vaglio, Renzo |

| | Document ID | Issue Date | Pages | Title | Current OR | Current XRef | Inventor |
|----|--|------------|-------|---|--|--|---|
| 29 | <input checked="" type="checkbox"/> US 3661733 A | 19720509 | 3 | CHROMIUM ELECTROPLATING | 205/286 | 148/277 ; 427/250 | Roggendorf, Wilhelm |
| 30 | <input checked="" type="checkbox"/> US 3634147 A | 19720111 | 5 | CORROSION RESISTANT TIN-FREE STEEL AND METHOD FOR PRODUCING SAME | 428/640 428/684 428/926 428/938 | 428/667 428/684 428/926 428/938 | Helwig, Lawrence E. , et al. |
| 31 | <input checked="" type="checkbox"/> US 3642588 A | 19720215 | 5 | ADDITION COMPOSITIONS FOR ACID ELECTROPLATING BATHS | 205/238 205/274 205/280 205/281 205/290 205/296 205/299 205/302 205/303 205/304 205/313 205/314 | 205/239 ; 205/243 ; 205/244 ; 205/247 ; 205/253 ; 205/259 ; 205/263 ; 205/267 ; 205/268 ; 205/271 | Charrier, Rene |
| 32 | <input checked="" type="checkbox"/> US 3901773 A | 19750826 | 3 | Method of making microcrack chromium coatings | 205/113 | 205/279 | Ludwig, Ralf |
| 33 | <input checked="" type="checkbox"/> US 5137619 A | 19920811 | 5 | Method of forming sliding surfaces | 205/179 | 205/222 ; 205/283 | Moriki, Hiroshi , et al. |
| 34 | <input checked="" type="checkbox"/> US 5132004 A | 19920721 | 3 | Method for the manufacture of a metal-coated steel strip and strip produced by the method | 205/225 | 204/210 ; 205/140 ; 205/224 | van Haastrecht, Gijbertus C. , et al. |

| | Document ID | Issue Date | Pages | Title | Current OR | Current XRef | Inventor |
|----|--|------------|-------|---|------------|--|----------------------------|
| 35 | <input checked="" type="checkbox"/> US 5779891 A | 19980714 | 22 | Non-fouling flow through capacitor system | 210/198.2 | 204/600 ; 204/645 ; 204/647 | Andelman, Marc D. |
| 36 | <input checked="" type="checkbox"/> US 5620597 A | 19970415 | 22 | Non-fouling flow-through capacitor | 210/198.2 | 204/600 ; 204/645 ; 204/647 ; 204/671 ; 210/243 ; 210/541 | Andelman, Marc D. |
| 37 | <input checked="" type="checkbox"/> US 4135039 A | 19790116 | 10 | Electrode structures and electrodes therefrom for use in electrolytic cells or batteries | 429/27 | 204/551 | Jenkins, Jonathan M. |
| 38 | <input checked="" type="checkbox"/> US 6096179 A | 20000801 | 28 | Carbon-reinforced electrode and method of making same | 204/294 | 204/666 ; 204/672 ; 204/674 ; 205/760 ; 502/416 ; 502/418 ; 521/181 ; 521/64 | Fajt, James R., et al. |
| 39 | <input checked="" type="checkbox"/> US 6090259 A | 20000718 | 20 | Liquid deionization apparatus having independently powered carbon-reinforced electrode structures | 204/666 | 204/551 ; 204/672 ; 204/674 ; 205/760 | Fajt, James R., et al. |
| 40 | <input checked="" type="checkbox"/> US 6045685 A | 20000404 | 21 | Method of reducing an ion concentration in a liquid | 205/701 | 205/687 | Fajt, James R., et al. |
| 41 | <input checked="" type="checkbox"/> US 5977015 A | 19991102 | 20 | Method for making a carbon-reinforced electrode | 502/418 | 204/294 ; 502/416 ; 521/181 ; 521/64 | Fajt, James R., et al. |
| 42 | <input checked="" type="checkbox"/> US 5932185 A | 19990803 | 5 | Method for making thin carbon foam electrodes | 423/445R | 264/29.1 ; 423/447.1 | Pekala, Richard W., et al. |

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| 43 | <input checked="" type="checkbox"/> US 5868915 A | 19990209 | 15 | Electrodeionization apparatus and method | 204/524 | ; 204/533 ; 204/536 ; 204/632 | Ganzi, Gary C. , et al. |
| 44 | <input checked="" type="checkbox"/> US 5858191 A | 19990112 | 15 | Electrodeionization apparatus and method | 204/524 | ; 204/533 ; 204/536 ; 204/632 ; 204/647 | DiMascio, Felice , et al. |
| 45 | <input checked="" type="checkbox"/> US 5867363 A | 19990202 | 35 | Energy storage device | 361/502 | ; 361/517 ; 361/518 ; 361/520 ; 361/535 ; 361/540 | Tsai, K. C. , et al. |
| 46 | <input checked="" type="checkbox"/> US 5858199 A | 19990112 | 38 | Apparatus and method for electrocoriolysis the separation of ionic substances from liquids by electromigration and coriolis force | 204/242 | ; 204/267 ; 204/269 ; 204/271 ; 204/272 ; 204/273 | Hanak, Joseph J. |
| 47 | <input checked="" type="checkbox"/> US 5800857 A | 19980901 | 42 | Energy storage device and methods of manufacture | 427/80 | ; 29/25.01 ; 29/25.03 ; 361/301.4 ; 361/305 ; 361/503 ; 427/282 | Ahmad, Nazir , et al. |
| 48 | <input checked="" type="checkbox"/> US 5711988 A | 19980127 | 43 | Energy storage device and its methods of manufacture | 427/80 | ; 29/25.01 ; 29/25.03 ; 361/305 ; 361/503 ; 427/282 | Tsai, K. C. , et al. |

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| 50 <input checked="" type="checkbox"/> US 5589284 A | 1996/12/31 | 11 | Electrodes comprising conductive perovskite-seed layers for perovskite dielectrics | 428/697 | 252/518.1 ; 252/520.21 ; 428/699 ; 428/701 ; 428/702 | Summerfelt, Scott R. , et al. |
| 51 <input checked="" type="checkbox"/> US 527640 A | 1996/06/18 | 15 | Electrochemical supercapacitors | 429/2/13 | 429/339 | Rudge, Andrew J. , et al. |
| 52 <input checked="" type="checkbox"/> US 5464453 A | 1995/11/07 | 21 | Method to fabricate a reliable electrical storage device and the device | 29/25.03 | 29/623.1 ; 29/623.5 | Tong, Robert R. , et al. |
| 53 <input checked="" type="checkbox"/> US 5390072 A | 1995/02/14 | 16 | Thin film capacitors | 361/313 | 29/25.42 ; 361/321.5 ; 427/79 | Anderson, Wayne A. , et al. |
| 54 <input checked="" type="checkbox"/> US 5384023 A | 1995/01/24 | 14 | Solvent extraction method and apparatus for recovering analytes | 204/556 | 204/558 ; 204/663 | Stalling, David L. , et al. |
| 55 <input checked="" type="checkbox"/> US 5352350 A | 1994/10/04 | 18 | Method for controlling chemical species concentration | 205/101 | 216/93 ; 427/437 ; 427/443.1 | Andricacos, Panayotis C. , et al. |

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| 57 | <input checked="" type="checkbox"/> US 4571543 A | 19860218 | 17 | Specific material detection and measuring device | 324/425 | ; 324/696 ; 324/717 ; 422/88 ; 422/98 ; 436/178 | Raymond, Leonard S. , et al. |
| 58 | <input checked="" type="checkbox"/> US 4053820 A | 19771011 | 12 | Active filter | 363/44 | ; 333/176 ; 363/48 | Peterson, Harold A. , et al. |
| 59 | <input checked="" type="checkbox"/> US 6071397 A | 20000606 | 5 | Apparatus for producing deionized water | 204/632 | ; 204/634 | Terada, Ichiro , et al. |
| 60 | <input checked="" type="checkbox"/> US 6001262 A | 19991214 | 11 | Cascade ion exchange for high purity water production | 210/678 | ; 210/278 ; 210/284 ; 210/685 | Kelada, Maher I. |
| 61 | <input checked="" type="checkbox"/> US 5997748 A | 19991207 | 19 | System for extracting soluble heavy metals from liquid solutions | 210/688 | ; 210/679 | Rosenberg, Edward , et al. |
| 62 | <input checked="" type="checkbox"/> US 5961805 A | 19991005 | 12 | Method and apparatus for producing deionized water | 204/632 | ; 204/524 ; 204/529 | Terada, Ichiro , et al. |

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| 63 | <input checked="" type="checkbox"/> US RE35741 E | 19980310 | 15 | Process for purifying water | 204/524 | ; 204/533 ; 204/536 ; 204/632 ; 204/647 | Oren, Yoram , et al. |
| 64 | <input checked="" type="checkbox"/> US 5695882 A | 19971209 | 20 | System for extracting soluble heavy metals from liquid solutions | | ; 210/688 | Rosenberg, Edward |
| 65 | <input checked="" type="checkbox"/> US 5628907 A | 19970513 | 26 | Process for separating acid-sugar mixtures using ion exclusion | 210/635 | ; 428/447 ; 502/401 ; 502/407 | Hester, Roger D. |
| 66 | <input checked="" type="checkbox"/> US 5580445 A | 19961203 | 11 | Continuous ion exchange apparatus | 210/137 | ; 127/46.3 ; 210/656 ; 210/659 | |
| 67 | <input checked="" type="checkbox"/> US 5482632 A | 19960109 | 7 | Extracting a target ion from an aqueous solution by ion exchange and electromotential ion transport | 210/638 | ; 210/189 ; 210/266 ; 210/268 ; 210/269 ; 210/284 | Iwatsuka, Takeshi , et al. |
| 68 | <input checked="" type="checkbox"/> US 4148708 A | 19790410 | 8 | Combination ion exchange and electrodialysis fluid purification apparatus | 204/632 | ; 376/306 ; 376/313 ; 376/328 ; 976/DIG 266 | Grant, Philip J. |
| 69 | <input checked="" type="checkbox"/> US 3715287 A | 19730206 | 9 | ION EXCHANGE DEMINERALIZING SYSTEM | 210/195.2 | ; 204/630 ; 210/259 ; 210/264 | Johnson, Allan M. |
| 70 | <input checked="" type="checkbox"/> US 5980718 A | | 7 | Fuse and filter arrangement for limiting and ameliorating electrode shorting in capacitive deionization water purification systems | | | IN PFPD |